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August 10, 2005 Case No. CR00254M (9640/45) Serial No.: 09/886,628 Filed: June 21, 2001

CLAIM LISTING

A listing of an entire set of claims 1-28 is submitted herewith per 37 CFR §1.121 to replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method of interference averaging in a multicarrier system, comprising:

providing a plurality of subcarriers; and averaging interference in a partially loaded multicarrier system.

wherein transmitting nulls are transmitted on at least one of the subcarriers during [[a]] at least one symbol period; and

wherein transmitting a data symbol is transmitted on at least one of the other subcarriers during the at least one symbol period.

- (Original) The method of claim 1, further comprising:
 spacing the nulls evenly on the subcarriers across a channel band.
- (Original) The method of claim 1, further comprising:
 pseudo-randomly spacing the nulls on the subcarriers across a channel band.
- (Original) The method of claim 1, further comprising:
 offsetting the symbol period by a predetermined amount of time.
- (Original) The method of claim 1, further comprising:
 offsetting the subcarriers by a predetermined frequency.

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6. (Currently Amended) A transmitter capable of interference averaging in a multicarrier system, comprising:

means for transmitting packet data on plurality of subcarriers; and means for averaging interference in a partially loaded multicarrier system, wherein the averaging interference means includes transmitting nulls on selected ones of the subcarriers during a symbol period; and means for and transmitting data on the remainder of the subcarriers during the symbol period.

7. (Withdrawn) A transmitter capable of interference averaging in a multicarrier system, comprising:

means for transmitting data symbols on a plurality of subcarriers;

means for transmitting nulls on at least one of the subcarriers during a symbol period; and

means for transmitting a data symbol on at least one of the other subcarriers during the symbol period.

8. (Withdrawn) A method of interference averaging in a multicarrier system, comprising:

providing a plurality of subcarriers;

assigning a plurality of data symbols to a first subset of the subcarriers for transmission during a symbol period;

assigning the data symbols to at least a second subset of the subcarriers for transmission during the symbol period; and

reducing the transmit power corresponding to the symbol period.

- (Withdrawn) The method of claim 8, further comprising:
 assigning at least one repeated data symbol to an adjacent subcarrier.
- (Withdrawn) The method of claim 8, further comprising:
 rotating the phase of at least one the data symbols by a predetermined value.

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- 11. (Withdrawn) The method of claim 10, further comprising: rotating the phase of a second repeated data symbol by a second predetermined value.
- 12. (Withdrawn) The method of claim 8, further comprising: assigning the data symbols according to a predetermined cell repetition mapping.
- 13. (Withdrawn) The method of claim 8, further comprising: offsetting the symbol period by a predetermined amount of time.
- 14. (Withdrawn) A transmitter capable of interference averaging in a multicarrier system, comprising:

means for assigning a plurality of data symbols to a plurality of subcarriers for transmission during a first symbol period;

means for assigning the data symbols to a second plurality of subcarriers for transmission during a second symbol period; and

means for reducing the transmit power corresponding to the first and second symbol periods.

- 15. (Withdrawn) The transmiπer of claim 14, wherein at least one of the data symbols is assigned to a different subcarrier during the first and second symbol periods.
- 16. (Withdrawn) The transmitter of claim 14, wherein the first and second plurality of subcarriers have at least one subcarrier in common.

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17. (Withdrawn) A method of interference averaging, comprising: assigning a plurality of data symbols to a first subset of a plurality of subcarriers for transmission during a first symbol period;

assigning the data symbols to a second subset of the subcarriers for transmission during a second symbol period; and

reducing the transmit power corresponding to the first and second symbol periods.

- 18. (Withdrawn) The method of claim 17 wherein at least one of the data symbols is assigned to a different subcarrier during the first and second symbol periods.
- 19. (Withdrawn) The method of claim 17 wherein the first and second subset have at least one subcarrier in common.
- 20. (Withdrawn) The method of claim 17 wherein the first subset includes all of the plurality of subcarriers.
- 21. (Withdrawn) The method of claim 17, wherein the first and second symbol periods are non-adjacent symbol periods.
- 22. (Withdrawn) The method of claim 17, further comprising: rotating the phase of at least one of the data symbols for at least one of the first and second symbol periods by a predetermined value.
- 23. (Withdrawn) The method of claim 17, further comprising: assigning the data symbols according to a predetermined cell repetition mapping.

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- 24. (Withdrawn) The method of claim 17, further comprising: offsetting at least one of the symbol periods by a predetermined amount of time.
- 25. (Withdrawn) The method of claim 17, further comprising: offsetting the subcarriers by a predetermined frequency.
- 26. (Withdrawn) A multicarrier communication system, comprising: means for assigning a plurality of data symbols to a first subset of a plurality of subcarriers for transmission during a first symbol period;

means for assigning the data symbols to a second subset of the subcarriers for transmission during a second symbol period; and

means for reducing the transmit power corresponding to the first and second symbol periods.

27. (Withdrawn) A method for interference averaging, comprising: providing a first data symbol having a first transmit power; providing a second data symbol having a second transmit power; transmitting the first and second data symbols during the same symbol period; and

transmitting the first and second data symbols on different subcarriers.

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28. (Withdrawn) A method of reducing co-channel interference, comprising determining whether transmitting data with a predetermined modulation/coding rate would leave one or more symbol periods unused in a frame; selecting a reduced coding/modulation rate based on a number of unused symbol periods;

transmitting data with reduced modulation/coding rate such that a number of unused symbol periods is reduced; and

reducing the transmit power of the data symbols with the reduced modulation/coding rate.